

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings of claims in the application:

LISTING OF CLAIMS:

1. (currently amended) ~~Speed~~ A speed changer ~~(1)~~ with predetermined gears, ~~especially for a cycle,~~ for control by cables ~~(3, 4),~~ based on a single rotating grip ~~(2),~~ of gearshifts ~~(5, 6)~~ connected respectively to an elastic return member ~~means, such as a spring,~~ said changer ~~(1)~~ comprising:

~~at least~~ two cable operating mechanisms ~~(7, 8)~~ located within a case ~~(18),~~ a first one of said operating mechanism ~~(7) of the mechanisms is for a cable (3) of the a front gearshift (5) or chainwheel gearshift, the other a second one of said operating mechanism (8) of the mechanisms is for a cable (4) of the a rear gearshift (6) or cog gearshift, this the second operating mechanism (8), jointly in rotation with the rotating grip (2), being able configured to induce release or pulling of the rear cable (4) for the rear gearshift during rotation of the rotating grip (2) in the a same direction, characterized in that~~

wherein a the rotary assembly formed at least from the second operating mechanism ~~(8) of the rear cable (4) and the rotating grip (2) can be~~ is rotationally coupled intermittently to the first operating mechanism ~~(7) of the front cable (3) of the chainwheel gearshift (5), this the first~~ operating mechanism ~~(7)~~

~~of the front cable (3), when coupled, being able to induce~~ induces
pulling or release of the ~~front~~ cable ~~(3)~~ of the ~~chainwheel~~ front
gearshift ~~(5)~~ depending on ~~the~~ a direction of rotation of the
rotating grip ~~(2)~~.

2. (currently amended) ~~Speed~~ The speed changer ~~(1)~~
according to claim 1, wherein the rotary assembly formed from the
second operating mechanism ~~(8) of the rear cable (4)~~ and the
rotating grip ~~(2) can be~~ is rotationally coupled in an
intermittent manner to the first operating mechanism ~~(7) of the~~
~~front cable (3) of the chainwheel gearshift (5)~~ via at least one
element that rotates jointly with the rotating grip and that ~~can~~
~~move~~ moves axially ~~along an axis that is~~ in a direction parallel
to ~~the~~ an axis of rotation of the rotating grip ~~(2)~~ during
rotational displacement of the ~~latter~~ rotating grip.

3. (withdrawn) ~~Speed~~ The speed changer ~~(1)~~ according to
claim 1, wherein the intermittent rotary coupling of the assembly
composed of the second operating mechanism ~~(8) of the rear cable~~
~~(4)/~~ and the rotating grip ~~(2)~~ with the first operating mechanism
~~(7) of the front cable (3) of the front gearshift (5)~~ is obtained
by at least one axial displacement of the second operating
mechanism ~~(8) of the rear cable (4) along an axis~~ in a direction
essentially parallel to ~~the~~ an axis of rotation of the rotating
grip ~~(2)~~ during one rotation of the ~~latter~~ rotating grip.

4. (currently amended) ~~Speed~~ The speed changer ~~(1)~~ according to claim 1, wherein the assembly formed by the second operating mechanism ~~(8) of the rear cable (4)~~ and ~~of the rotating~~ grip ~~(2) can be~~ is rotationally coupled intermittently with the first operating mechanism ~~(7) of the front cable (3) of the front gearshift (5)~~ by jaw clutching.

5. (currently amended) ~~Speed~~ The speed changer ~~(1)~~ according to claim 4, wherein ~~the a~~ jaw ~~(9A, 9B)~~ extends between the first operating mechanism and the second operating mechanism ~~mechanisms (7, 8) of the cable (3, 4)~~, the teeth ~~(9A, 9B)~~ of the jaw equipping one of the first and second operating mechanisms ~~(7, 8) that can be~~ mounted with angular play ~~on said mechanism in such as way as to allow~~ take-up ~~of the operating~~ angular play.

6. (currently amended) ~~Speed~~ The speed changer (1) according to claim 1, wherein the second operating mechanism ~~of the rear cable (4)~~ is composed of a drum ~~(8A) that rotates jointly with the rotating grip (2), this drum (8A) on its an~~ outside periphery of said drum comprising at least one track ~~(8B1, 8B2)~~ for guiding a head ~~(11) of the cable (4) of the rear gearshift,~~ said head ~~(11) of the cable (4)~~ moving translationally ~~along one axis~~ in a direction that is essentially parallel to ~~the an~~ axis of rotation of the rotating grip ~~(2)~~ as ~~it~~ said head follows ~~the a~~ profile of the at least one track ~~(8B1, 8B2)~~ obtained by rotation

of the rotating grip ~~(2)~~, ~~this~~ displacement of said head, depending on ~~its~~ the direction of translational movement, inducing release or pulling of the ~~rear~~ cable ~~(4)~~ of the rear gearshift.

7. (currently amended) ~~Speed~~ The speed changer ~~(1)~~ according to claim 6, wherein the head ~~(11) of the cable (4)~~ is composed of two lugs ~~(12)~~ that ~~can~~ interwork alternately with one segment of the at least one track ~~(8B1, 8B2)~~ of the drum ~~(8A)~~, ~~this~~ the at least one track being composed of two segments that are axially offset.

8. (currently amended) ~~Speed~~ The speed changer ~~(1)~~ according to claim 6, wherein the head ~~(11) of the cable (4)~~ is provided with a spring ~~(13)~~ that returns ~~at least one~~ part of the head ~~(11)~~ in permanent contact with the at least one track ~~(8B1, 8B2)~~.

9. (currently amended) ~~Speed~~ The speed changer ~~(1)~~ according to claim 6, wherein the drum ~~(8A)~~ is equipped with ~~means of immobilization~~ immobilizers arranged in a plurality of predetermined angular positions, each corresponding to positioning of the rear gearshift ~~(6)~~ on a cog, ~~these immobilization means,~~ ~~moreover,~~ said immobilizers allowing axial displacement of the drum ~~(8A)~~ in ~~the~~ a direction of pulling the cable ~~(4)~~ of the rear gearshift as the ~~latter~~ rear gearshift is being entrained in

rotation via the rotating grip ~~(2)~~, said drum ~~(8A)~~ being ~~returned~~ configured to return in ~~the~~ an opposite direction ~~by suitable~~ ~~return means~~.

10. (currently amended) ~~Speed~~ The speed changer ~~(1)~~ according to claim 9, wherein the ~~means of immobilization~~ immobilizers are composed of notches ~~(14A)~~ and teeth ~~(14B)~~, with a ~~preferably~~ truncated triangular profile, borne by ~~the~~ a front surface of the drum ~~(8A)~~ and ~~a stationary part with regard to the~~ case ~~(18)~~, respectively.

11. (currently amended) ~~Speed~~ The speed changer ~~(1)~~ according to claim 1, wherein the first operating mechanism ~~(7)~~ ~~of the front cable (3)~~ is composed of a winch ~~(7A)~~ equipped with a throat ~~(7B)~~ for winding the ~~front~~ cable ~~(3)~~ of the front gearshift, ~~this~~ said winch ~~(7A)~~ having a plurality of predetermined angular positions, each corresponding to one position of the front gearshift ~~(5)~~ on ~~the~~ a chainwheel, ~~this~~ said winch ~~(7A)~~ being configured to return to ~~returned in~~ any of the angular positions ~~by the action of a spring connected to the front gearshift (5)~~.

12. (currently amended) ~~Speed~~ The speed changer ~~(1)~~ according to claim 11, wherein the winch ~~(7A)~~ is immobilized in any angular position via stops ~~(15)~~ that move axially and that

extend between two tracks ~~(16, 17)~~ that are annular with respect to ~~the~~ a differentiated profile, ~~the~~ a first one ~~shown at (17) of~~ said two tracks is arranged on ~~the~~ a front surface of the winch ~~(7A)~~, ~~the other shown at (16)~~ a second one of said two tracks is arranged on a piece that rotates jointly with the rotating grip ~~(2)~~, said ~~axially movable~~ stops ~~(15)~~ that follow ~~an axis~~ a direction parallel to ~~the~~ an axis of rotation of the rotating grip ~~(2)~~, depending on ~~the~~ a profile of the two tracks, ~~being retractable~~ said stops retract into ~~the~~ an interior of a recess of the piece that rotates jointly with the rotating grip to allow free rotation of the winch ~~(7A)~~ or ~~being able to be~~ are kept in ~~the~~ a projecting position of said piece that rotates jointly with the rotating grip ~~to come~~ to rest in ~~the~~ a recess of the winch ~~(7A)~~ in order to prevent rotation of the winch in one direction corresponding to that obtained under the action of the spring ~~linked to the front gearshift (5)~~.

~~the rotary assembly formed at least from the operating mechanism (8) of the rear cable (4) and the grip (2) can be rotationally coupled intermittently to the operating mechanism (7) of the front cable (3) of the chainwheel gearshift (5), this operating mechanism (7) of the front cable (3), when coupled, being able to induce pulling or release of the front cable (3) of the chainwheel gearshift (5) depending on the direction of rotation of the grip (2).~~

13-14. (canceled)

15. (withdrawn) ~~Speed~~ The speed changer ~~(1)~~ according to claim 2, wherein the intermittent rotary coupling of the assembly composed of the second operating mechanism ~~(8) of the rear cable (4)/~~ and the rotating grip (2) with the first operating mechanism ~~(7) of the front cable (3) of the front gearshift (5)~~ is obtained by at least one axial displacement of the second operating mechanism ~~(8) of the rear cable (4) along an axis in a direction~~ essentially parallel to ~~the~~ an axis of rotation of the rotating grip ~~(2)~~ during one rotation of the ~~latter~~ rotating grip.

16. (currently amended) ~~Speed~~ The speed changer (1) according to claim 2, wherein the assembly formed by the second operating mechanism ~~(8) of the rear cable (4)~~ and ~~of the rotating grip (2) can be~~ is rotationally coupled intermittently with the first operating mechanism ~~(7) of the front cable (3) of the front gearshift (5)~~ by jaw clutching.

17. (currently amended) ~~Speed~~ The speed changer (1) according to claim 2, the second operating mechanism ~~of the rear cable (4)~~ is composed of a drum ~~(8A)~~ that rotates jointly with the rotating grip ~~(2)~~, ~~this drum (8A) on its~~ an outside periphery of said drum comprising at least one track ~~(8B1, 8B2)~~ for guiding a head ~~(11) of the cable (4)~~ of the rear gearshift, said head ~~(11)~~

~~of the cable (4) moving translationally along one axis in a~~
direction that is essentially parallel to ~~the~~ an axis of rotation
of the rotating grip (2) as ~~it~~ said head follows ~~the~~ a profile of
the at least one track ~~(8B1, 8B2)~~ obtained by rotation of the
rotating grip (2), ~~this~~ displacement of said head, depending on
~~its~~ the direction of translational movement, inducing release or
pulling of the ~~rear~~ cable (4) of the rear gearshift.

18. (withdrawn) ~~Speed~~ The speed changer (1) according
to claim 3, the second operating mechanism ~~of the rear cable (4)~~
is composed of a drum ~~(8A)~~ that rotates jointly with the rotating
grip (2), ~~this drum (8A) on its~~ an outside periphery of said drum
comprising at least one track ~~(8B1, 8B2)~~ for guiding a head ~~(11)~~
of the cable (4) of the rear gearshift, said head ~~(11) of the~~
~~cable (4) moving translationally along one axis in a direction~~
that is essentially parallel to ~~the~~ an axis of rotation of the
rotating grip (2) as ~~it~~ said head follows ~~the~~ a profile of the at
least one track ~~(8B1, 8B2)~~ obtained by rotation of the rotating
grip (2), ~~this~~ displacement of said head, depending on ~~its~~ the
direction of translational movement, inducing release or pulling
of the ~~rear~~ cable (4) of the rear gearshift.

19. (currently amended) ~~Speed~~ The speed changer (1)
according to claim 4, the second operating mechanism ~~of the rear~~
~~cable (4)~~ is composed of a drum ~~(8A)~~ that rotates jointly with the

rotating grip (2), ~~this drum (8A) on its~~ an outside periphery of
said drum comprising at least one track ~~(8B1, 8B2)~~ for guiding a
head ~~(11)~~ of the cable ~~(4)~~ of the rear gearshift, said head ~~(11)~~
~~of the cable (4)~~ moving translationally ~~along one axis in a~~
direction that is essentially parallel to ~~the~~ an axis of rotation
of the rotating grip (2) as ~~it~~ said head follows ~~the~~ a profile of
the at least one track ~~(8B1, 8B2)~~ obtained by rotation of the
rotating grip (2), ~~this~~ displacement of said head, depending on
~~its~~ the direction of translational movement, inducing release or
pulling of the ~~rear~~ cable ~~(4)~~ of the rear gearshift.

20. (currently amended) ~~Speed~~ The speed changer (1)
according to claim 5, the second operating mechanism ~~of the rear~~
~~cable (4)~~ is composed of a drum ~~(8A)~~ that rotates jointly with the
rotating grip (2), ~~this drum (8A) on its~~ an outside periphery of
said drum comprising at least one track ~~(8B1, 8B2)~~ for guiding a
head ~~(11)~~ of the cable ~~(4)~~ of the rear gearshift, said head ~~(11)~~
~~of the cable (4)~~ moving translationally ~~along one axis in a~~
direction that is essentially parallel to ~~the~~ an axis of rotation
of the rotating grip (2) as ~~it~~ said head follows ~~the~~ a profile of
the at least one track ~~(8B1, 8B2)~~ obtained by rotation of the
rotating grip (2), ~~this~~ displacement of said head, depending on
~~its~~ the direction of translational movement, inducing release or
pulling of the ~~rear~~ cable ~~(4)~~ of the rear gearshift.